

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/020,965	POPOVICI, LASCAR	
	<b>Examiner</b>	<b>Art Unit</b>	
	Thai Q. Phan	2128	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application S/N: 10/020,965, filed on Dec. 19, 2001.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☒ The drawings filed on 19 December 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date Apr. 12, 2002
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

*Thai Phan*  
Thai Phan  
Patent Examiner  
AU: 2128

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### **DETAILED ACTION**

This Office Action is in response to patent application S/N: 10/020/965. Claims 1-16 are pending in the Action.

#### ***Allowable Subject Matter***

1. The following is an examiner's statement of reasons for allowance:

The closest prior art of record cited:

US patent no. 5,030,117 discloses a digital system for generating geographical maps, in which the cartographical data is organized according to a hierarchy of successive magnitudes or levels, and superimposed grids.

US patent no. 5,694,534 discloses a device and method for storing a representation of topological structure and methods for constructing and searching this representation at a given level of details based on a hierarchy of carrier blocks.

US patent no. 6,161,105 discloses a data structure and datatype for storing, manipulating and accessing multidimensional spatial data in a database by using and deriving a binary helical hyperspatial code for N-dimensions data structure.

US patent publication no. 2002/0099675 discloses a method and system for mapping a set of patterns into an m-dimensional space to preserve and represent object relationships in a multidimensional space.

2. The claimed invention consists of independent claims 1 and 14. The claimed invention is related to a method and system for vectorial cartography. The vectorial cartography method and system thereof require steps and means for "creating a

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matrixing  $M$  of the space  $\Delta$  by superimposing a large number of geometric matrices with different specifications  $\rho$ , representing coverage of the domain by a defined, homogeneous set of similar subdomains, each of the meshes of each geometric matrix being defined by a unique specific numerical value called the matrix code", "sorting of the matrix  $M$  by matrix codes following a predetermined order, increasing or decreasing, of the specifications  $\rho$ ", and "construction of the extraction matrix  $\mu$  describing just the objects affected by the meshes included in domain  $\delta$  or intersected by domain  $\delta$ ."

3. Because the closest prior art of record does not expressly disclose the claimed invention of principal matrix constructed by superimposing domain coverage and intersected domain meshes of geometric matrices, each mesh being identified by a unique specific matrix code value, and construction of the extraction matrix  $\mu$  describing the object affected by the meshes in the intersected domain for vectorial cartography, and information classification and retrieval, claims 1-16 are deemed allowable over the prior art of record.

### ***Conclusion***

1. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Phan whose telephone number is 703-305-3812.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean Homere can be reached on 703-308-6647. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aug. 04, 2004



Thai Phan  
Patent Examiner  
Art Unit: 2128

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